Solutions Manual for Fluid Mechanics 5th Edition by Kundu Cohen and Dowling

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Chapter 1 Introduction

1.1 A gas at 20°C may be rangled if it contains less than 10¹² molecules per mm³. If Avogadro's number is 6.023E23 molecules per mole, what air pressure does this represent?

Solution: The mass of one molecule of air may be computed as

Then the density of air containing 1012 molecules per mm3 is, in SI units,

$$\frac{g}{mm^3} = \frac{12 \text{ molecules}}{mm^3} = 4.81E-5 \cdot \frac{g}{m}$$
= 4.81E-11 \frac{g}{mm^3} = 4.81E-5 \frac{kg}{m}_3

Finally, from the perfect gas law, Eq. (1.13), at 20°C = 293 K, we obtain the pressure:

$$p = \rho RT = 4.8185 - 5$$
 $\frac{\text{kg}}{\text{m}^3} = \frac{\text{m}^2}{\text{s}^2 \cdot \text{K}}$ (293 K) = 4.0 Pa Ans.

1.2 The earth's atmosphere can be modeled as a uniform layer of air of thickness 20 km and average density 0.6 kg/m³ (see Table A-6). Use these values to estimate the total mass and total number of molecules of air in the entire atmosphere of the earth.

Solution: Let R_e be the earth's radius ≈ 6377 km. Then the total mass of air in the atmosphere is

$$m_t = -\rho \, d\text{Vol} = \rho_{avg} \, (\text{Air Vol}) \approx \rho_{avg} \, 4\pi \, \text{R}^2_{c} \, (\text{Air thickness})$$

= $(0.6 \, \text{kg/m}^3) 4\pi \, (6.377E6 \, \text{m})^2 \, (20E3 \, \text{m}) \approx 6.1E18 \, \text{kg}$ Ans.

Dividing by the mass of one molecule ≈ 4.8E-23 g (see Prob. 1.1 above), we obtain the total number of molecules in the earth's atmosphere:

$$\frac{N}{motorules} = \frac{m(atmosphere)}{m(one molecule)} = \frac{6.1E21 \text{ grams}}{4.8E-23 \text{ gm/molecule}} \approx 1.3E44 \text{ molecules}$$
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Margaret R Richardson, Scott Richardson, Richardson, Maj

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The British National Bibliography Arthur James Wells, 1994 Whitaker's Book List ,1991 American Book Publishing Fundamentals of Fluid Mechanics Bruce R. Munson, Donald F. Young, Theodore H. Okiishi, 2005-03-11 Record, 1990 Master fluid mechanics with the 1 text in the field Effective pedagogy everyday examples an outstanding collection of practical problems these are just a few reasons why Munson Young and Okiishi s Fundamentals of Fluid Mechanics is the best selling fluid mechanics text on the market In each new edition the authors have refined their primary goal of helping you develop the skills and confidence you need to master the art of solving fluid mechanics problems This new Fifth Edition includes many new problems revised and updated examples new Fluids in the News case study examples new introductory material about computational fluid dynamics CFD and the availability of FlowLab for solving simple CFD problems Access special resources online New copies of this text include access to resources on the book s website including 80 short Fluids Mechanics Phenomena videos which illustrate various aspects of real world fluid mechanics Review Problems for additional practice with answers so you can check your work 30 extended laboratory problems that involve actual experimental data for simple experiments The data for these problems is provided in Excel format Computational Fluid Dynamics problems to be solved with FlowLab software Student Solution Manual and Study Guide A Student Solution Manual and Study Guide is available for purchase including essential points of the text Cautions to alert you to common mistakes 109 additional example **Solutions Manual to Accompany Essentials** problems with solutions and complete solutions for the Review Problems of Engineering Fluid Mechanics, Fifth Edition Steven J. Wright, Olson, 1990-01 Solutions Manual and Transparency Masters John Arthur Roberson, 1993 Student Solutions Manual to The Publishers' Trade List Annual .1981 accompany A Brief Introduction to Fluid Mechanics, 5e Donald F. Young, Bruce R. Munson, Theodore H. Okiishi, Wade W. Huebsch, 2011-03-15 This is the Student Solutions Manual to accompany A Brief Introduction to Fluid Mechanics 5th Edition A Brief Introduction to Fluid Mechanics 5th Edition is designed to cover the standard topics in a basic fluid mechanics course in a streamlined manner that meets the learning needs of today s student better than the dense encyclopedic manner of traditional texts This approach helps students connect the math and theory to the physical world and practical applications and apply these connections to solving problems The text lucidly presents basic analysis techniques and addresses practical concerns and applications such as pipe flow open channel flow flow measurement and drag and lift It offers a strong visual approach with photos illustrations and videos included in the text examples and homework problems to emphasize the practical application of fluid mechanics principles Fundamentals of Fluid Mechanics Bruce R. Munson, Donald F. Young, Theodore H. Okiishi, 2005-09 Master fluid mechanics with the 1 text in the field Effective pedagogy everyday examples an outstanding collection of practical problems these are just a few reasons why Munson Young and Okiishi s Fundamentals of Fluid Mechanics is the best selling fluid mechanics text on the market In each new edition the authors have refined their

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